AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

2

2

2

2

2

2

CLAIM 1 (Canceled):

CLAIM 2 (Previously Presented):

The program storage medium as recited in claim 19, wherein first and second nodes are electronic devices.

CLAIM 3 (Previously Presented):

The program storage medium as recited in claim 19, wherein first and second switching devices are electronic devices selected from the group consisting of repeaters, hubs, routers, bridges, and switches.

CLAIM 4 (Previously Presented):

The program storage medium as recited in claim 19, wherein the star segment further comprises a third node connected to a third port located on the first switching device.

CLAIMS 5-8 (Canceled):

CLAIM 9 (Previously Presented):

The computer operable method as recited in claim 23, providing first and second nodes are electronic devices.

CLAIM 10 (Previously Presented):

The computer operable method as recited in claim 23, providing first and second switching devices are electronic devices selected from the group consisting of repeaters, hubs, routers, bridges, and switches.

CLAIM 11 (Previously Presented):

The computer operable method as recited in claim 23, providing the star segment further comprises a third node connected to a third port located on the first switching device.

CLAIMS 12-15 (Canceled):

CLAIMS 16-18 (Canceled):

CLAIM 19 (Currently Amended):

A program storage medium readable by a computer, tangibly

2	embodying a software computer program of instructions executable by the computer to perform method steps for automatically specifying a
4	topological map, wherein the topological map describes the connectivity of nodes on a computer network, wherein the network
6	comprises a first switching device having a first port, said steps the instructions comprising:
8	
10	if connection of a first node to the first port is detected: detecting connection of a first node to the first port;
12	if connection of a second node to the first port has been was previously detected, detected:
14	
16	specifying that the topology topological map of the network comprises a bus segment attached to the first port, wherein the bus segment comprises the first port, the first node, the second
18	node, and that part of the network interconnecting the first port,
20	the first node, and the second node; node,
22	otherwise, if the first node is a second port located on a second switching device; device:
24	specifying that the topology topological map of the network comprises a serial segment attached to the first port, wherein
26	the serial segment comprises the first port, the second port, and that part of the network interconnecting the first port and the
28	second port; <u>port,</u> and
30	otherwise, otherwise:
32	specifying that the topology topological map of the network comprises a star segment attached to the first port, wherein the
34	star segment comprises the first port, the first node, and that part of the network interconnecting the first port and the first
36	node: node; and
38	using the topological map to control the flow of messages on the network.
40	network.
	CLAIM 20 (Previously Presented):
	The program storage medium as recited in claim 19, wherein the
2	method step specifying that the topology of the network comprises the bus segment attached to the first port comprises:
4	
6	if the bus segment is absent, specifying the bus segment;

	if the serial segment was previously specified:
8	the Control of the control of the first went from the
10	transferring the second node and the first port from the previously specified serial segment to the bus segment,
12	deleting the previously specified serial segment, and
14	adding the first node to the bus segment;
16	otherwise, if the star segment was previously specified:
18	transferring the second node from the previously specified star segment to the bus segment,
20	deleting the previously specified star segment, and
2224	adding the first node to the bus segment; and
Z 4	otherwise, adding the first node to the bus segment.
	CLAIM 21 (Previously Presented):
2	The program storage medium as recited in claim 19, wherein the method step specifying that the topology of the network comprises the serial segment attached to the first port comprises:
4	Serial Segment attached to the first port comprises.
6	specifying the serial segment;
6 8	adding the first node to the serial segment; and
0	adding the first port to the serial segment.
	CLAIM 22 (Previously Presented):
2	The program storage medium as recited in claim 19, wherein the method step specifying that the topology of the network comprises the
4	star segment attached to the first port comprises:
•	specifying the star segment;
6	adding the first node to the star segment; and
8	adding the first hode to the star segment, and
	adding the first port to the star segment.
	CLAIM 23 (Currently Amended): A computer operable method for automatically specifying creating a
2	topological map, wherein the topological map describes the connectivity of nodes on a computer network, wherein the network
4	comprises a first switching device having a first port, comprising the

	steps of: comprising:
6	• — •
	if connection of a first node to the first port is detected: detecting
8	connection of a first node to the first port;
10	if connection of a second node to the first port has been was
	previously detected, <u>detected:</u>
12	
14	specifying that the topology topological map of the network comprises a bus segment attached to the first port, wherein the bus segment comprises the first port, the first node, the second
16	node, and that part of the network interconnecting the first port, the first node, and the second node; node,
18	the list hode, and the second hode, model
10	otherwise, if the first node is a second port located on a second
20	switching device; device:
22	specifying that the topology topological map of the network comprises a serial segment attached to the first port, wherein
24	the serial segment comprises the first port, the second port, and
26	that part of the network interconnecting the first port and the second port; port, and
28	otherwise, otherwise:
30	specifying that the topology topological map of the network comprises a star segment attached to the first port, wherein the
32	star segment comprises the first port, the first node, and that
34	part of the network interconnecting the first port and the first node; and
26	uning the tangle size! were to control the floor of manager and the
36	using the topological map to control the flow of messages on the network.
	CLAIM 24 (Previously Presented):
	The computer operable method as recited in claim 23, the method step
2	specifying that the topology of the computer network comprises the
4	bus segment attached to the first port comprising:
4	if the bus segment is absent, specifying the bus segment;
6	if the ous segment is absent, specifying the ous segment,
	if the serial segment was previously specified:
8	
10	transferring the second node and the first port from the previously specified serial segment to the bus segment,
10	previously specified serial segment to the ous segment,
12	deleting the previously specified serial segment, and

	adding the first node to the bus segment;
14	
16	otherwise, if the star segment was previously specified:
18	transferring the second node from the previously specified star segment to the bus segment,
20	deleting the previously specified star segment, and
22	adding the first node to the bus segment; and
24	otherwise, adding the first node to the bus segment.
	CLAIM 25 (Previously Presented):
2	The computer operable method as recited in claim 23, wherein the method step specifying that the topology of the network comprises the
4	serial segment attached to the fort port comprises:
	specifying the serial segment;
8	adding the first node to the serial segment; and
0	adding the first port to the serial segment.
	CLAIM 26 (Previously Presented):
2	The computer operable method as recited in claim 23, wherein the method step specifying that the topology of the network comprises the
4	star segment attached to the first port comprises:
7	specifying the star segment;
6	
8	adding the first node to the star segment; and
5	adding the first port to the star segment.

CLAIM 27 (Cancelled):